

420 Rec'd PCT/PTO 26 JAN 2000

## SEQUENCE LISTING

<110> The Administrators of the Tulane Educational Fund  
Landry, Samuel J.

<120> PREDICTION, DETECTION AND DESIGN OF  
T-CELL EPITOPE

<130> 07005/003WO2

<140> NOT KNOWN

<141> 1998-07-28

<150> 60/054,156

<151> 1997-07-29

<160> 2

<170> FastSEQ for Windows Version 3.0

<210> 1.

<211> 513

<212> PRT

<213> Bacteriophage T4

<400> 1

Met	Arg	Val	Lys	Gly	Ile	Arg	Lys	Asn	Tyr	Gln	His	Leu	Trp	Lys	Trp
1				5					10					15	
Gly	Ile	Met	Leu	Leu	Gly	Ile	Leu	Met	Ile	Cys	Ser	Ala	Ala	Glu	Asn
			20					25					30		
Leu	Trp	Val	Thr	Val	Tyr	Tyr	Gly	Val	Pro	Val	Trp	Lys	Glu	Ala	Thr
			35				40					45			
Thr	Thr	Leu	Phe	Cys	Ala	Ser	Asp	Ala	Lys	Ala	Tyr	Asp	Thr	Glu	Val
	50					55					60				
His	Asn	Val	Trp	Ala	Thr	His	Ala	Cys	Val	Pro	Thr	Asp	Pro	Asn	Pro
65					70					75				80	
Gln	Glu	Val	Val	Leu	Glu	Asn	Val	Thr	Glu	Asn	Phe	Asn	Met	Trp	Lys
			85					90					95		
Asn	Asn	Met	Val	Glu	Gln	Met	His	Glu	Asp	Ile	Ile	Ser	Leu	Trp	Asp
			100					105					110		
Gln	Ser	Leu	Lys	Pro	Cys	Val	Lys	Leu	Thr	Pro	Leu	Cys	Val	Thr	Leu
		115					120					125			
Asn	Cys	Thr	Asn	Val	Asn	Val	Thr	Asn	Leu	Lys	Asn	Glu	Thr	Asn	Thr
	130				135						140				
Asn	Ser	Ser	Ser	Gly	Gly	Glu	Lys	Met	Glu	Glu	Gly	Glu	Met	Lys	Asn
145				150					155					160	
Cys	Ser	Phe	Asn	Val	Thr	Thr	Leu	Ile	Arg	Asn	Lys	Arg	Lys	Thr	Glu
			165					170						175	
Tyr	Ala	Leu	Phe	Tyr	Lys	Leu	Asp	Val	Met	Pro	Ile	Asp	His	Asp	Asn
		180					185					190			
Thr	Ser	Tyr	Thr	Leu	Ile	Asn	Cys	Lys	Ser	Ser	Thr	Ile	Thr	Gln	Ala
	195					200						205			

Cys Pro Lys Val Ser Phe Glu Pro Ile Pro Ile His Tyr Cys Ala Pro  
 210 215 220  
 Ala Gly Phe Ala Ile Leu Lys Cys Asn Asp Lys Lys Phe Asn Gly Lys  
 225 230 235 240  
 Gly Pro Cys Lys Asn Val Ser Thr Val Gln Cys Thr His Gly Ile Arg  
 245 250 255  
 Pro Val Val Ser Thr Gln Leu Leu Leu Asn Gly Ser Leu Ala Glu Glu  
 260 265 270  
 Asp Ile Val Ile Arg Ser Glu Asn Phe Thr Asp Asn Ala Lys Asn Ile  
 275 280 285  
 Ile Val Gln Leu Asn Val Ser Ile Glu Ile Asn Cys Thr Arg Pro Asn  
 290 295 300  
 Asn Asn Thr Arg Lys Lys Ile Thr Leu Gly Pro Gly Arg Val Leu Tyr  
 305 310 315 320  
 Thr Thr Gly Glu Ile Ile Gly Asp Ile Arg Arg Ala His Cys Asn Leu  
 325 330 335  
 Ser Arg Thr Ser Trp Asn Asn Thr Leu Lys Gln Ile Val Glu Lys Leu  
 340 345 350  
 Arg Glu Ile Lys Gln Phe Lys Asn Lys Thr Ile Val Phe Lys Gln Ser  
 355 360 365  
 Ser Gly Gly Asp Pro Glu Ile Val Met His Ser Phe Asn Cys Gly Gly  
 370 375 380  
 Glu Phe Phe Tyr Cys Asn Ser Thr Gln Leu Phe Asn Ser Thr Trp His  
 385 390 395 400  
 Ala Asn Gly Thr Trp Lys Asn Thr Glu Gly Ala Asp Asn Asn Ile Thr  
 405 410 415  
 Leu Pro Cys Arg Ile Lys Gln Ile Ile Asn Arg Trp Gln Glu Val Gly  
 420 425 430  
 Lys Ala Met Tyr Ala Pro Pro Ile Glu Gly Gln Ile Arg Cys Leu Ser  
 435 440 445  
 Asn Ile Thr Gly Leu Leu Leu Thr Arg Asp Gly Gly Ser Ser Glu Glu  
 450 455 460  
 Asn Gln Thr Glu Ile Phe Arg Pro Gly Gly Gly Asn Met Lys Asp Asn  
 465 470 475 480  
 Trp Arg Ser Glu Leu Tyr Lys Tyr Lys Val Val Lys Ile Glu Pro Leu  
 485 490 495  
 Gly Val Ala Pro Thr Lys Ala Lys Arg Arg Val Val Gln Arg Glu Lys  
 500 505 510  
 Arg

&lt;210&gt; 2

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Human Immunodeficiency Virus

&lt;400&gt; 2

Met Ser Glu Val Gln Gln Leu Pro Ile Arg Ala Val Gly Glu Tyr Val  
 1 5 10 15  
 Ile Leu Val Ser Glu Pro Ala Gln Ala Gly Asp Glu Glu Val Thr Glu  
 20 25 30  
 Ser Gly Leu Ile Ile Gly Lys Arg Val Gln Gly Glu Val Pro Glu Leu  
 35 40 45

1

[illegible]